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DATE MAILED: 10/13/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/632,802 08/04/2003		Jong-Chull Shon	1594.1227	7463	
21171	7590 10/13/2004		EXAMINER		
STAAS & HALSEY LLP SUITE 700			LEUNG, PHILIP H		
	ORK AVENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20005			3742		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)					
Office Action Summary		10/632,8	02	SHON ET AL.					
		Examine	r	Art Unit					
		Philip H L		3742					
Period fo	The MAILING DATE of this communication approximation or Reply	ppears on the	ecover sheet with the	correspondence ad	ddress				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION msions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reduction period for reply is specified above, the maximum statutory period received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no ev ply within the stat d will apply and w ite, cause the app	ent, however, may a reply be cutory minimum of thirty (30) d ill expire SIX (6) MONTHS fro dication to become ABANDON	timely filed ays will be considered time on the mailing date of this of NED (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) filed on <u>20 September 2004</u> .								
2a)□	This action is FINAL . 2b)⊠ Th	his action is FINAL . 2b) This action is non-final.							
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-35</u> is/are pending in the applicatio 4a) Of the above claim(s) <u>9,10,21,30 and 31</u> is Claim(s) <u>22,26,27,32 and 33</u> is/are allowed. Claim(s) <u>1,3,4,11,12,17-20,23-25,28,29,34 are Claim(s) <u>2,5-8 and 13-16</u> is/are objected to. Claim(s) are subject to restriction and</u>	is/are withdra nd 35 is/are	rejected.	on.					
Applicat	ion Papers								
9)	The specification is objected to by the Examir	ner.							
10)⊠ The drawing(s) filed on <u>04 August 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the corre	•	-, .	•	• •				
11)	The oath or declaration is objected to by the E	Examiner. No	ote the attached Office	e Action or form P	TO-152.				
Priority (ınder 35 U.S.C. § 119								
a)l	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document of: 2. Certified copies of the priority document of: 3. Copies of the certified copies of the priority document of the priorit	nts have bee nts have bee ority docume au (PCT Rul	en received. en received in Applica ents have been receive e 17.2(a)).	ation No ved in this National	l Stage				
Attachmen	t(s)								
	e of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) 🛭 Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>8-4-2003</u> .	3)		Patent Application (PT	O-152)				

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DETAILED ACTION

Applicant's election with traverse of claims 1-8, 11-20, 22-29 and 32-35 in the reply filed on 9-20-2004 is acknowledged. The traversal is on the ground(s) that both groups of inventions are directed to a magnetron, microwave oven and high frequency heating apparatus. This is not found persuasive because it was NOT a restriction requirement but a SPECIES election.

Obviously, species are directed to same Groups of invention, as pointed out in the requirement, unless applicant clearly admits on the record that the species are not patentably distinct and submits evidence or identifies such evidence now of record showing the species to be obvious variants of each other, the species election is proper and will not be withdrawn.

The requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 9, 10, 21, 30 and 31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the election requirement in the reply filed on 9-20-2004.
- 3. In claim 16, the duplicate "the" at line 2 should be cancelled.
- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1, 3, 4, 11, 12, 17-20, 23-25, 28, 29, 34 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Kazuki (JP 5-41173) (cited by the applicant).

Kazuki shows a magnetron for microwave devices such as a microwave oven or radar (paragraph 0001). The magnetron includes a ring-shaped anode 1 forming a plurality of resonance circuits; a cathode 3 disposed at an axial center of the anode to emit thermions, separated from the anode by a predetermined space; a ring-shaped permanent magnet 8 provided above the anode; an upper pole piece 5 having a magnetic flux dispersing structure to carry magnetic flux generated by the permanent magnet to an upper portion of the predetermined space; a lower pole piece 6 carrying the magnetic flux to a lower portion of the predetermined space; and at least one yoke 9 magnetically connecting the permanent magnet with the lower pole piece (see Figures 1-6 and the English abstract). In regard to claims 19, 20 and 23-25, the claimed cooking cavity and control unit are basic essential elements of a microwave oven and inherent in every microwave oven. Similarly, in regard to claims 28, 29, 34 and 35, the claimed control unit is a basic essential element of a radar and inherent in every radar device.

- 6. Claims 22, 26, 27, 32 and 33 are allowed.
- 7. Claims 2, 5-8 and 13-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yang (US 6,774,568) and Aiga (JP 11-283517) are further cited to show magnetron devices with similar claimed features.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip H Leung whose telephone number is (703) 308-1710.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (703) 305-5766. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Philip H Leung Primary Examiner
Art Unit 3742

P.Leung/pl 10-12-2004